

Refine Search

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L4 and 562/\$	27

Database:

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US Patents Full-Text Database
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Derwent World Patents Index
IBM Technical Disclosure Bulletins

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DATE: Tuesday, October 09, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)**Set Name Query**
side by side**Hit Count Set Name**
result set*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>L5</u>	L4 and 562/\$	27	<u>L5</u>
<u>L4</u>	L3 and metal catalyst	120	<u>L4</u>
<u>L3</u>	L2 and (isophthalic acid or 2,6\$1naphthalene dicarboxylic acid)	1350	<u>L3</u>
<u>L2</u>	L1 and porous\$8 and terephthalic acid	2224	<u>L2</u>
<u>L1</u>	HYDROGEN\$9 AND CATALYST	453102	<u>L1</u>

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1. Document ID: US 20060149097 A1

L5: Entry 1 of 27

File: PGPB

Jul 6, 2006

PGPUB-DOCUMENT-NUMBER: 20060149097

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060149097 A1

TITLE: Hydrogenation processes

PUBLICATION-DATE: July 6, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Soled; Stuart Leon	Pittstown	NJ	US
Malek; Andrzel	Baton Rouge	LA	US
Vartuli; James Clarke	Schwenksville	PA	US
Feeley; Jennifer Schaefer	Lebanon	NJ	US
Miseo; Sabato	Pittstown	NJ	US
Shifang; Luo	Pittsford	NY	US
Schlosberg; Richard Henry	Bridgewater	NJ	US
Baumgartner; Joseph Ernest	Califon	NJ	US
Kliewer; ChristineE	Clinton	NJ	US
Ragomo; StevenT	Perkasie	PA	US

US-CL-CURRENT: 562/487; 562/570, 562/571

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn De
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2. Document ID: US 20040199006 A1

L5: Entry 2 of 27

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199006

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040199006 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Graham, Derek Alexander	Cleveland		GB
Hamley, Paul Anthony	Nottingham		GB
Oliver, Raymond	Stockton On Tees		GB
Poliakoff, Martyn	Nottingham		GB
Woodcock, Duncan C.	Cheshire		GB
Ilkenhans, Thomas	Cambridge		GB

US-CL-CURRENT: 562/412

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw D](#)

[] 3. Document ID: US 20030023115 A1

L5: Entry 3 of 27

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030023115

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030023115 A1

TITLE: Air oxidation of an aromatic aldehyde to an aromatic acid

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Shekhar, Ratna	Madison	NJ	US
Girgis, Michael John	Montville	NJ	US

US-CL-CURRENT: 562/421

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw D](#)

[] 4. Document ID: US 20020028968 A1

L5: Entry 4 of 27

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028968

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028968 A1

TITLE: Production of aromatic carboxylic acids

PUBLICATION-DATE: March 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Graham, Derek Alexander	Cleveland		GB
Hamley, Paul Anthony	Nottingham		GB

Ilkenhans, Thomas	Cambridge	GB
Oliver, Raymond	Stockton on Tees	GB
Poliakoff, Martyn	Nottingham	GB
Woodcock, Duncan C.	Cheshire	GB

US-CL-CURRENT: 562/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn De
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□ 5. Document ID: US 7238833 B2

L5: Entry 5 of 27

File: USPT

Jul 3, 2007

US-PAT-NO: 7238833

DOCUMENT-IDENTIFIER: US 7238833 B2

TITLE: Production of aromatic carboxylic acids

PRIOR-PUBLICATION:

DOC-ID DATE

US 20040199006 A1 October 7, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn De
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□ 6. Document ID: US 6765113 B2

L5: Entry 6 of 27

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

TITLE: Production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn De
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□ 7. Document ID: US 6740776 B2

L5: Entry 7 of 27

File: USPT

May 25, 2004

US-PAT-NO: 6740776

DOCUMENT-IDENTIFIER: US 6740776 B2

TITLE: Air oxidation of an aromatic aldehyde to an aromatic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn De
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□ 8. Document ID: US 5756833 A

L5: Entry 8 of 27

File: USPT

May 26, 1998

US-PAT-NO: 5756833

DOCUMENT-IDENTIFIER: US 5756833 A

**** See image for Certificate of Correction ****

TITLE: Catalytic purification and recovery of dicarboxylic aromatic acids

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sentences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw. D](#)**□ 9. Document ID: US 5728870 A**

L5: Entry 9 of 27

File: USPT

Mar 17, 1998

US-PAT-NO: 5728870

DOCUMENT-IDENTIFIER: US 5728870 A

TITLE: Process for preparing purified 2,6-naphthalenedicarboxylic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sentences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw. D](#)**□ 10. Document ID: US 5629446 A**

L5: Entry 10 of 27

File: USPT

May 13, 1997

US-PAT-NO: 5629446

DOCUMENT-IDENTIFIER: US 5629446 A

**** See image for Certificate of Correction ****

TITLE: Process for preparing purified 2,6-naphthalenedicarboxylic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sentences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw. D](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

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11. Document ID: US 5616792 A

L5: Entry 11 of 27

File: USPT

Apr 1, 1997

US-PAT-NO: 5616792

DOCUMENT-IDENTIFIER: US 5616792 A

** See image for Certificate of Correction **

TITLE: Catalytic purification of dicarboxylic aromatic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Patent Drawings	Claims	KMC	Draw D
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12. Document ID: US 5563294 A

L5: Entry 12 of 27

File: USPT

Oct 8, 1996

US-PAT-NO: 5563294

DOCUMENT-IDENTIFIER: US 5563294 A

** See image for Certificate of Correction **

TITLE: Process for preparing purified 2,6-naphthalenedicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Patent Drawings	Claims	KMC	Draw D
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13. Document ID: US 5502247 A

L5: Entry 13 of 27

File: USPT

Mar 26, 1996

US-PAT-NO: 5502247

DOCUMENT-IDENTIFIER: US 5502247 A

** See image for Certificate of Correction **

TITLE: Process for recovery of aromatic acid or ester and polyol from waste polyester resins

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Patent Drawings	Claims	KMC	Draw D
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14. Document ID: US 5473102 A

L5: Entry 14 of 27

File: USPT

Dec 5, 1995

US-PAT-NO: 5473102

DOCUMENT-IDENTIFIER: US 5473102 A
** See image for Certificate of Correction **

TITLE: Process for recovery of aromatic acid and dihydric alcohol from waste polyester resins

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstracts](#) | [Detailed Abstracts](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

□ 15. Document ID: US 5453538 A

L5: Entry 15 of 27

File: USPT

Sep 26, 1995

US-PAT-NO: 5453538

DOCUMENT-IDENTIFIER: US 5453538 A

** See image for Certificate of Correction **

TITLE: Process for the manufacture of aromatic dicarboxylic acids utilizing cerium to facilitate a low bromine to metals catalyst ratio

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstracts](#) | [Detailed Abstracts](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

□ 16. Document ID: US 5414113 A

L5: Entry 16 of 27

File: USPT

May 9, 1995

US-PAT-NO: 5414113

DOCUMENT-IDENTIFIER: US 5414113 A

** See image for Certificate of Correction **

TITLE: Process for recovery of aromatic acid from waste polyester resin

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstracts](#) | [Detailed Abstracts](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

□ 17. Document ID: US 5362908 A

L5: Entry 17 of 27

File: USPT

Nov 8, 1994

US-PAT-NO: 5362908

DOCUMENT-IDENTIFIER: US 5362908 A

** See image for Certificate of Correction **

TITLE: Catalyst and method for purifying crude terephthalic acid, isophthalic acid or naphthalene dicarboxylic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstracts](#) | [Detailed Abstracts](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

□ 18. Document ID: US 5354898 A

L5: Entry 18 of 27

File: USPT

Oct 11, 1994

US-PAT-NO: 5354898

DOCUMENT-IDENTIFIER: US 5354898 A

TITLE: Method for purifying crude aromatic carboxylic acids

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Search History](#) [Edit Search](#) [Claims](#) [KMC](#) [Drawn D](#) 19. Document ID: US 5113015 A

L5: Entry 19 of 27

File: USPT

May 12, 1992

US-PAT-NO: 5113015

DOCUMENT-IDENTIFIER: US 5113015 A

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TITLE: Recovery of acetic acid from methyl acetate

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Search History](#) [Edit Search](#) [Claims](#) [KMC](#) [Drawn D](#) 20. Document ID: US 5110984 A

L5: Entry 20 of 27

File: USPT

May 5, 1992

US-PAT-NO: 5110984

DOCUMENT-IDENTIFIER: US 5110984 A

** See image for Certificate of Correction **TITLE: Process for increasing the yield of purified isophthalic acid and reducing waste-water treatment a[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Search History](#) [Edit Search](#) [Claims](#) [KMC](#) [Drawn D](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

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Γ 21. Document ID: US 4937378 A

L5: Entry 21 of 27

File: USPT

Jun 26, 1990

US-PAT-NO: 4937378

DOCUMENT-IDENTIFIER: US 4937378 A

** See image for Certificate of Correction **

TITLE: Purification of crude isophthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Search Images	Search PDF	Claims	KWMC	Drawn D
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Γ 22. Document ID: US 4933492 A

L5: Entry 22 of 27

File: USPT

Jun 12, 1990

US-PAT-NO: 4933492

DOCUMENT-IDENTIFIER: US 4933492 A

** See image for Certificate of Correction **

TITLE: Purification of crude isophthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Search Images	Search PDF	Claims	KWMC	Drawn D
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Γ 23. Document ID: US 4675438 A

L5: Entry 23 of 27

File: USPT

Jun 23, 1987

US-PAT-NO: 4675438

DOCUMENT-IDENTIFIER: US 4675438 A

** See image for Certificate of Correction **

TITLE: Direct continuous flow integration of production and purification of high purity iso- or terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Search Images	Search PDF	Claims	KWMC	Drawn D
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Γ 24. Document ID: US 4288588 A

L5: Entry 24 of 27

File: USPT

Sep 8, 1981

US-PAT-NO: 4288588

DOCUMENT-IDENTIFIER: US 4288588 A
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TITLE: Methyl-substituted polyphenylcarboxylic acids

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Abstract](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

Γ 25. Document ID: US 4255590 A

L5: Entry 25 of 27

File: USPT

Mar 10, 1981

US-PAT-NO: 4255590

DOCUMENT-IDENTIFIER: US 4255590 A

** See image for Certificate of Correction **

TITLE: Combination of pyrolysis and incineration of solid mixture of oxygen-containing aromatic compounds obtained as residue of manufacture of benzene di- and tricarboxylic acids

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Abstract](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

Γ 26. Document ID: US 4238294 A

L5: Entry 26 of 27

File: USPT

Dec 9, 1980

US-PAT-NO: 4238294

DOCUMENT-IDENTIFIER: US 4238294 A

TITLE: Process for recovering heavy metal ions or heavy metal ions and halogen values from solutions comprising a lower aliphatic monocarboxylic acid

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Abstract](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

Γ 27. Document ID: US 4154922 A

L5: Entry 27 of 27

File: USPT

May 15, 1979

US-PAT-NO: 4154922

DOCUMENT-IDENTIFIER: US 4154922 A

** See image for Certificate of Correction **

TITLE: Polyesters of methyl-substituted polyphenylcarboxylic acids

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Detailed Abstract](#) | [Claims](#) | [KMC](#) | [Drawn D](#)

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